

Title (en)

Centring magnetic bearing with two groups of coils and permanent magnets on the stator and without permanent magnets on the rotor

Title (de)

Zentrierendes Magnetlager mit zwei Spulengruppen und Dauermagneten am Stator und ohne Dauermagneten am Rotor

Title (fr)

Dispositif de centreur à palier magnétique avec deux ensembles de bobinage et d'aimants au stator et sans aimant au rotor

Publication

**EP 2154387 B1 20190828 (FR)**

Application

**EP 09166254 A 20090723**

Priority

FR 0804322 A 20080729

Abstract (en)

[origin: EP2154387A1] The device has a rotor (R') movable around rotation axis, and forming a steel crown comprising a first mechanical support structure and rotor-mounted magnetic yokes (CR1 1, CR12) secured to the first mechanical support structure. A stator (S') comprises a second mechanical support structure and stator-mounted magnetic yokes (CS11, CS12) secured to the second mechanical support structure. Windings (B11, B11', B12, B12') are supplied with winding current. Windings and magnets (A11, A12) are assembled on the stator.

IPC 8 full level

**F16C 32/04** (2006.01); **B64G 1/28** (2006.01); **G01C 19/24** (2006.01)

CPC (source: EP US)

**B64G 1/286** (2013.01 - EP US); **F16C 32/0459** (2013.01 - EP US); **F16C 32/0474** (2013.01 - EP US); **F16C 2326/47** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**EP 2154387 A1 20100217**; **EP 2154387 B1 20190828**; ES 2752573 T3 20200406; FR 2934655 A1 20100205; FR 2934655 B1 20110506; US 2010026120 A1 20100204; US 8378542 B2 20130219

DOCDB simple family (application)

**EP 09166254 A 20090723**; ES 09166254 T 20090723; FR 0804322 A 20080729; US 51191409 A 20090729